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FEDERAL - STATE COOPERATIVE

SNOW SURVEYS AND IRRIGATION WATER FORECASTS
for

Montana and Northern Wyoming
Upper Missouri, Upper Columbia and Yellowstone Rivers

By
Division of Irrigation, Soil Conservation Service
United States Department of Agriculture
and
Montana Agricultural Experiment Station

In cooperation with the U. S. Forest Service, U. S. Geological Survey, National Park Service, U. S. Bureau of Reclamation, State Engineers of Montana and Wyoming and other Federal, State and local organizations.

As of
MAR. 1, 1951

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U.S. DEPARTMENT

FEDERAL-STATE COOPERATIVE
SNOW SURVEY AND IRRIGATION WATER FORECASTS

FOR

MONTANA and NORTHERN WYOMING

Upper Missouri and Upper Columbia River
Basins

Report Prepared
by

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and

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Division of Irrigation
Soil Conservation Service

and

Montana Agricultural Experimental Station
Bozeman, Montana

IRRIGATION WATER SUPPLY
OUTLOOK FOR 1951
As of March 1, 1951

In most of the River Basins of the Upper Missouri and Upper Columbia the outlook for Irrigation Water Supply is good. The Musselshell Basin and parts of the Beaverhead look a little short. There will NOT be as much water as in 1950 or 1949 and possibly less than 1948. The Snow Survey data show there is close to an average Snow Pack based on 18 years of records.

Precipitation in Western Montana has been above average this season to date while Central and Eastern Montana precipitation from valley stations is below average. Precipitation at Valley Stations in Northern Wyoming has been considerably below average while the snow pack is relatively close to Average or above.

Reservoir Storage is generally Good for this time of season and better than last season. Stream-flow has been above the median throughout the entire season to date with some exceptionally high flows in mid-February due to a prolonged 'Chinook'.

The Snow Pack on the Beaverhead River Basin as of March 1 is relatively GOOD. The Red Rock River Basin is a little short while the Horse-Prairie Big Hole and Wise River Basins range from 50% to 25% above the average. The Ruby River Basin is a little short this season with the snow pack about 10% below average for this time of season.

The snow Pack on the Madison and Gallatin River Basins is very close to the average for the first of March based on 18 years of records. On the Main Stem of the Missouri from Three Forks to Fort Benton the Tributaries from the East indicate a below average condition while those from the West indicate an above average condition. The valley Precipitation being a strong minus departure from average over most of the Central part of the State. The Teton, Sun and Marias River Basins have a fair snow pack, Averaging close to 15% and 20% of average.

The Upper Yellowstone River Basin has a Fair Snow Pack for the first of March. The Water Content in this basin is close to Average. Most of the measurements are less than 1950 and 1949 but close to 1948. Tributary Basins to the north are quite low in Water content while those to the South in Yellowstone Park are slightly above normal.

The Lower Yellowstone River Basin Consisting of the Wind, Big Horn Shoshone, Powder and Tongue Rivers Has a GOOD pack of snow for March 1. The Wind and Popo Aggie are in excellent condition with water content measurements averaging about 30% above normal. The Big Horn is about Average conditions. The Shoshone is slightly above average. The Tongue and Powder Rivers are a little below average. Precipitation at the valley stations over the Lower Yellowstone Basin is consistantly below normal by inches at many stations. It is hoped spring and summer rains will be above average this coming season.

U S DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. Bennett, Chief

DIVISION OF RESEARCH
M. L. Nichols, Chief
Washington, D. C.

MONTANA AND NORTHERN WYOMING SNOW SURVEY COURSES

LEGEND
- □ TOWNS AND CITIES
- ● 13D4 SNOW SURVEY COURSE
- ○ (14) IDAHO & WYOMING NUMBERS
- ▲ STREAM GAGING STATIONS

JANUARY 1950

DIVISION OF IRRIGATION BOZEMAN MONTANA

50 25 0 SCALE IN MILES 50 100

REPRODUCED BY THE SOIL CONSERVATION SERVICE, CARTOGRAPHIC DIVISION, LINCOLN, NEBR. 5R, 11484

Drainage Basin and Course Name	Montana Number	Elev.	Location Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates[a]	Measured By:[b]
Missouri River Drainage								
JEFFERS N RIVER								
(ROCK-BEAVERHEAD)								
Lakeview Ridge	11E3	7400	27	1S	2W	1948	3,4,5	9
Lakeview Canyon	11E4	6930	26	1S	2W	1941	3,4,5	9
Limekiln	11E2	6950	15	5S	9W	1948	3,4	1
White Pine Ridge	11E1	6650	18	1S	9W	1945	3,4	1
(MADISON PRAIRIE)								
Bloody Dick	13D16	7600	12	8S	1oW	1948	3,4	1
Gold Stone	13D9	6100	11	8S	1oW	1948	3,4	1
Lewis Pass	13E1	7400	9	10S	15W	1945	3,4	1
Merrell Creek	13D12	6650	11	9S	15W	1948	3,4	1
Quail Creek	13E2	7090	15	10S	15W	1948	3,4	1
Selway Junction	13D11	6800	27	8S	15W	1948	3,4	1
(BIG HOLE)								
Big Hole Pass	13D3	7440	28	3S	18W	1948	3,4	1
Big Hole Pass(Below)	13D4	6900	24	3S	18W	1948	3,4	1
East Boundary	13D5	6700	22	3S	17W	1948	3,4	1
Gibbons Pass	13D2	7100	4	2S	19W	1934	2,3,4,5	1,2
Jahnke Creek	13D8	7340	25	7S	16W	1948	3,4	1
Miner Forks	13D6	7300	24	6S	17W	1948	3,4	1
Miner Lake	13D7	6720	10	6S	16W	1945	3,4,5	1
(WISE RIVER)								
Anderson Mdw.	13D14	7000	18	3S	12W	1948	3,4	1
Elk Horn	13D15	8450	15	4S	12W	1934	3,4,5	2
Wise River	13D13	6300	15	2S	12W	1948	3,4	1
(RUBY RIVER)								
Cottonwood	11E2	5900	24	10S	3W	1948	3,4	1
Cottonwood (Upper)	11E1	6400	30	10S	2W	1948	3,4	1
Flashlight	12D3	6950	22	8S	7W	1945	3,4,5	1
Tobacco Root	12D2	6900	13	4S	3W	1948	3,4	1
Vigilante	11D1	6125	28	9S	3W	1948	3,4	1
MADISON RIVER								
Hebgen	11E5	6550	22	11S	3E	1934	1,2,3,4,5	2
West Yellowstone	11E7	6700	34	13S	5E	1934	1,2,3,4,5	2
Norris Basin	10E2	7500	44°-44'		110°-42'	1935	3,4	5,6
GALLATIN RIVER								
Devil's Slide	10D4	8100	14	5S	6E	1935	3,4,5	2,6
Hood Meadow	10D3	6600	22	4S	6E	1934	3,4,5	2,6
Mystic Lake	10D2	6600	30	3S	7E	1935	2,3,4	6,7
New World	10D1	6700	24	3S	8E	1939	2,3,4,5	6,7
21-Mile	11E6	7150	1	11S	5E	1934	1,2,3,4,5	2
MISSOURI RIVER MAIN STEM								
Chessman Reservoir	12C5	6200	2	8N	5W	1936	1,2,3,4,5	2
Crystal Lake	9C1	6100	24	12N	17E	1941	3,4	1
Grasshopper	10C2	7000	19	9N	8E	1938	3,4	1
Kings Hill	10C1	7950	35	13N	7E	1937	3,4,5	2
Picnic Grounds	12C6	6500	22	5N	6W	1940	2,3,4	3
Pipestone Pass	12D1	7200	11	1N	7W	1938	2,3,4,5	1
Stemple Pass	12C1	6900	16	13N	7W	1934	3,4,5	2
Tenmile Creek,Lower	12C2	6250	13	8N	6W	1935	1,2,3,4,5	2
Tenmile Creek,Middle	12C3	6800	13	8N	6W	1934	1,2,3,4,5	2
Tenmile Creek,Upper	12C4	8000	19	8N	5W	1935	1,2,3,4,5	2
(TETON RIVER)								
Bright Creek	12A1	6000	13	26N	10W	1948	3,4	1
Waldron Creek	12B2	5400	16	25N	9W	1948	3,4	1
West Fork	12B1	6000	6	25N	9W	1948	3,4	1
(SUN RIVER)								
Bench Mark	12B8	5500	9	20N	10W	1948	3,4	1
Cabin Creek	12B6	5400	33	23N	10W	1949	3,4	1
S-Bull	12B9	5600	36	20N	10W	1948	3,4	1
Gates Park	12B5	5300	31	21N	10W	1949	3,4	1
Goat Mountain	12B7	7000	20	22N	10W	1934	3,4	2
My Lake	13B9	7300	21	23N	12W	1950	3,4	1
Wrong Creek Ridge	12B3	6800	17	25N	10W	1949	3,4	1
Wrong Creek	12B4	5700	32	25N	10W	1949	3,4	1
(MARIAS RIVER)								
Marias Pass	13A5	5250	34	30N	14W	1936	1,2,3,4,5	2
Snow Lab. #16	13A9	5200	15	29N	14W	1947	1,2,3,4,5	2
(MILK RIVER)								
Rocky Boy	9A1	5200	15	28N	16E	1941	3,4	7
(MUSSELSHELL RIVER)								
Grasshopper	10C3	7000	19	9N	8E	1938	3,4	1
UPPER YELLOWSTONE								
Camp Senia	9D1	7890	2	8S	18E	1937	4	1
Canyon	10E3	7750	44°-44'		110°-30'	1938	1,2,3,4,5	Pd.Obs.
Cooke City	10D7	7400	25	9S	14E	1937	1,2,3,4,5	5
Crevice Mt.	10D5	8400	29	9S	9E	1935	3,4	1
Independence	10D6	8000	22	7S	12E	1941	3,4	Pd.Obs.
Lake Camp	10E4	7850	44°-34'		110°-24'	1937	1,2,3,4,5	Pd.Obs.
Lodgepole (Wyo.)	9E1	8200	32	56N	106W	1940	4,5	1
Lupine Creek	10E1	7300	44°-54'		110°-37'	1938	1,2,3,4,5	5
(SHELLUS RIVER)								
Porcupine	10C3	6500	10	4N	10E	1938	3,4	1
LOWER YELLOWSTONE								
(WIND RIVER) WYO.								
Brooks Lake #3	10F2	9200	23	44N	110W	1939	2,3,4,5	Pd.Obs.
Burroughs Creek	9F6	8800	15	43N	107W	1948	2,3,4,5	Pd.Obs.
Dinwoodie	9F10	10000	9	38N	105W	1948	2,3,4,5	Pd.Obs.
Dry Creek	9F9	9500	34	4N	105W	1948	2,3,4,5	Pd.Obs.
DuNoir	9F2	8750	27	42N	108W	1940	2,3,4,5	Pd.Obs.
Geyser Creek	9F3	8500	12	41N	108W	1948	2,3,4,5	Pd.Obs.
Hobbs Park	9G2	10000	22	2S	3W	1948	2,3,4,5	Pd.Obs.
Little Warm	9F4	9500	24	41N	108W	1948	2,3,4,5	Pd.Obs.
Mosquito Park R.S.	9G3	9500	23	2S	3W	1940	2,3,4,5	Pd.Obs.
Sheridan R. S.	9F1	7500	3	42N	109W	1939	2,3,4,5	1
St.Lawrence R.S.	9F11	9000	26	1N	4W	1940	2,3,4,5	Pd.Obs.
T-Cross Ranch	9F5	8000	1	43N	107W	1940	2,3,4,5	Pd.Obs.
Trout Creek	9G1	8400	5	2S	2W	1948	2,3,4,5	Pd.Obs.
Togwotee Pass	10F1	9600	29	44N	110W	1936	2,3,4,5	10
(TOPO AGIE RIVER) WYO.								
Blue Ridge	8G2	9500	23	31N	101W	1939	2,3,4,5	1
Grannier Meadows	8G4	9000	19	30N	100W	1936	2,3,4,5	1
Larson Creek	9G4	9000	12	30N	103W	1948	3,4,5	1
Sawmill Glade	8G1	8500	3	31N	101W	1939	2,3,4,5	1
South Pass	8G3	9000	13	30N	101W	1939	2,3,4,5	1

Drainage Basin and Course Name	Montana Number	Elev.	Location Sec. Lat.	Twp.	Range Long.	Record Began	Measuring Dates[a]	Measured By:[b]
Missouri River Drainage (Cont.)								
BIG HORN RIVER WYO.								
Beavers Hill	9F8	8900	6	43N	102W	1948	2,3,4,5	Pd.Obs.
Owl Creek	8F1	8700	30	43N	101W	1948	2,3,4,5	Pd.Obs.
Tensleep R.S.	7E3	8300	30	49N	86W	1935	4,5	1
Timber Creek	9E2	8600	25	47N	103W	1948	4,5	1
Ranger Creek	7E1	8800	32	53N	88W	1935	4,5	1
Wood River	9F7	8000	28	46N	103W	1939	2,3,4,5	1
(SHOSHONE RIVER) WYO.								
East Entrance	10E6	7000	17	52N	109W	1948	1,2,3,4,5	5
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	5
TONGUE RIVER WYO.								
Big Goose	7E2	7700	4	53N	86W	1935	4,5	1
POWDER RIVER WYO.								
Red Fork	7E1	7000	18	43N	85W	1936	4,5	Pd.Obs.
Sour Dough	6E1	8500	17	49N	81W	1936	4,5	1
Columbia River Basin								
KOOTENAI RIVER								
Baree Mountain	15B1	6000	1	25N	31W	1937	4,5	1
Blue Bird Basin	14A1	6800	24	37N	26W	1937	4,5	1
Brush Creek	14A4	5000	13	30N	18W	1941	3,4	1
Red Mountain	15A1	6000	4	36N	29W	1937	3,4,5	1
FLATHEAD RIVER								
Big Creek	13B3	6750	6&7	22N	18W	1941	4,5	4
Brush Creek	14A4	5000	13	30N	26W	1937	3,4	1
Cattle Queen	13A1	4700	7	35N	17W	1939	3,4	5
Desert Mountain	13A2	5600	24	31N	19W	1937	1,2,3,4,5	1
Elk Mountain	13B4	6750	1	20N	19W	1941	3,4	4
Goat Mountain	12B7	7000	20	22N	10W	1934	3,4	2
Hell Roaring Divide	14A3	5770	35	32N	22W	1942	4,5	1
Kishenehn	14A2	4300	7	37N	21W	1946	4,5	5
Limestone Pass	13B8	7000	34	17N	15W	1948	3,4	1
Logan Creek	14A5	4300	34	30N	24W	1937	3,4	1
Marias Pass	13A5	5250	34	30N	14W	1934	1,2,3,4,5	2
North Fork Jocko	13B7	6330	3	17N	17W	1941	3,4	4
Rainy Lake	13B6	4300	11	18N	16W	1947	3,4,5	1
Snow Lab. # 16	13A9	5200	15	29N	14W	1946	1,2,3,4,5	2
Spotted Bear Mt.	13B2	7000	23	25N	15W	1948	3,4	1
Strawberry Lake	13B10	6500	11	28N	19W	1948	3,4	1
Trinkus Lake	13B1	6500	9	25N	17W	1948	3,4	1
Trout Lake	13B11	3600	21	28N	17W	1948	3,4	1
Upper Holland Lake	13B5	7000	28	20N	16W	1948	3,4	1
UPPER CLARK FORK								
Chessman Reservoir	12C5	6200	2	8N	5W	1936	1,2,3,4,5	2
East Fork Ranger Stn	13D1	5400	16	2N	17W	1937	4	1
El Dorado Mine	13C9	7800	23	8N	12W	1946	4	11
Gold Creek Lake	13C8	7200	14	8N	12W	1946	4	11
Intergaard	13C4	6450	6	5N	13W	1939	2,3,4	3
North Fork Jocko	13B7	6330	3	17N	17W	1941	3,4	4
Picnic Grounds	12C6	6500	22	5N	6W	1940	2,3,4	3
Pipestone Pass	12D1	7200	11	1N	7W	1938	2,3,4,5	1
Rainy Lake	13B6	4300	11	18N	16W	1947	3,4,5	1
Skalkaho Summit	13C3	7258	30	6N	17W	1937	4	1
Slide Rock Mountain	13C2	7100	26	10N	16W	1937	4	1
Southern Cross	13C5	6500	9	5N	13W	1939	2,3,4	3
Stemple Pass	13C1	6900	16	13N	7W	1934	3,4,5	2
Storm Lake No. 2	12C7	7780	19	4N	13W	1939	4	1
Stuart Mill	13C6	6500	19	5N	13W	1939	2,3,4	3
Stuart Mountain #1	13C1	7400	6	4N	18W	1936	4	1
Tenmile Creek,Lower	12C2	6250	13	8N	6W	1935	1,2,3,4,5	2
Tenmile Creek,Middle	12C3	6800	13	8N	6W	1935	1,2,3,4,5	2
Tenmile Creek,Upper	12C4	8000	19	8N	5W	1935	1,2,3,4,5	2
PEND OREILLE RIVER								
Baree Mountain	13B1	6000	1	25N	31W	1937	4,5	1
Freezeout Summit	15C3	7000	21	15N	27W	1937	4	1
Hoodoo Creek	13C1	6200	9&16	14N	27W	1937	4	1
BITTERROOT RIVER								
East Fork R. S.	13D1	5400	16	2N	17W	1937	4	1
Gibbons Pass	13D2	7100	4	2S	19W	1934	2,3,4,5	1
Mud Creek Pasture	14C1	4500	24	11N	24W	1937	3	1
Nezperce Camp	14D2	5580	19&20	1S	23W	1937	4	1
Nezperce Pass	14D1	6575	32	28N	16E	1937	4	1
Skalkaho Summit	13C3	7259	30	6N	17W	1937	4	1
Stuart Mountain #1	13C1	7400	6	4N	18W	1936	4	1
Saskatchewan River Basin								
ST. MARY RIVER								
Iceberg Lake	13A3	6000	48°-50'		113°-42'	1922	5	2,8
Piegan Pass # 4	13A4	5000	48°-46'		113°-40'	1922	5	2,8
Piegan Pass # 6	13A6	6500	48°-45'		113°-42'	1922	5	2,8
Mount Allen # 7	13A7	7000	48°-44'		113°-40'	1922	5	2,8
Ptarmigan # 8	13A8	5800	48°-50'		113°-42'	1922	5	2,8

a. Numerals 1,2,3,4, and 5 refer to January 1, February 1, March 1, April 1, and May 1.

b. Numerals refer to Agency that secures the snow survey as follows:

1. U. S. Forest Service
2. U. S. Geological Survey and U. S. Engineer Corps
3. Montana Power Company
4. U. S. Indian Service
5. National Park Service
6. Montana Experimont Station
7. City of Bozeman
8. Dominion Water and Power Bureau
9. U. S. Fish and Wildlife Service
10. U. S. Bureau of Reclamation
11. Deerlodge Citizens Committee

Pd. Obs. Paid Observer by Soil Conservation Service

STORAGE IN RESERVOIRS OF MONTANA AND NORTHERN WYOMING

Reservoir Volumes in 1,000's of acre feet

RESERVOIR	Location or on Diverson from	Usable Capacity	Contents this Year March 1 1951	Contents Last Year March 1 1950	March 1 10-Year Average 1940-49
Lake Sewall	Missouri	37.8	19.3	32.1	
Hauser Lake	Missouri	52.1	48.7	42.7	46.4
Holter Reservoir	Missouri	81.9	65.1	49.8	55.5
Fort Peck Res.	Missouri	19,000.0	12,430.0	11,490.0	10,457.7
Ruby Reservoir	Ruby	38.5			
Hebgen Reservoir	Madison River	345.0	230.8	206.8	240.8
Madison Reservoir	Madison River	41.0	35.2	38.7	34.4
Smith River Res.	Smith River	10.7			
Gibson Reservoir	N.Fk.Sun River	105.0	81.5	40.6	64.2
Willow Creek	N.Fk.Sun-Willow Cr.	32.3	23.8	3.0	13.0
Pishkun Reservoir	N.Fk.Sun River	32.0	18.9	18.9	17.4
Lower Two Mecicine L.	TwoMedicine River	14.0			
Four Horns Res.	Badger Creek	20.0			
Birch Creek Res	Birch Creek	30.0	28.1	19.3	21.0
Lake Francis Res.	Birch Creek	112.0	93.5	82.0	75.9
Askley Lake	Judith River	5.8		4.4	4.3
Durand Res.	N.Fk.Musselshell	7.0	5.5		
Dead Man Basin	Musselshell River	52.5			
Martinsdale Res.	So.Fk.Musselshell	23.1	12.4	10.1	9.3
Fresno Res.	Milk River	127.2	65.9	12.1	44.4
Nelson Res.	Milk Reservoir	66.8	15.7	4.8	31.3
Mystic Lake	W.Rosebud Creek	20.8	8.7	8.6	8.4
Cooney Res.	Red Lodge Creek	27.5	8.4	12.4	9.2
Tongue Reservoir	Tongue River	73.9		5.5	8.9
Sherburne Lake Res.	Swiftcurrent Creek	66.1			17.9
Lake Hellen	Missouri River	10.4	8.6	5.8	
YELLOWSTONE RIVER BASIN (Wyoming)					
Buffalo Bill	Shoshone	456.6	295.0	205.9	297.4
Pilot Butte	Wind River	30.1	8.4	5.9	13.8
Bull Lake	Wind River	155.0	89.5	99.4	62.3
COLUMBIA RIVER BASIN (Montana)					
Georgetown Lake	Flint Creek	31.0	23.0	18.5	18.7
E.Fk.Rock Cr.Res.	E.Fk.Rock Creek	16.0			
W.Fk.Bitterroot Res.	E. Fk.Bitterroot	31.7	10.0	0.6	7.6
Como Lake	Rock Creek	34.8			
Flathead Lake(Sommers)	Flathead River	1,791.0	902.7	657.5	342.2
*Little Bitterroot	Little Bitterroot	37.1	34.7	33.3	14.9
*Dry Fork Res.'s	Dry Fork Creek	6.7	4.4	4.0	2.3
**Mission Valley 9 Reservoirs	Mission Valley (Flathead River)	105.0	49.8	44.1	37.0

*Comprised of two reservoirs on Little Bitterroot river

*Comprised of two reservoirs on Dry Fork Creek.

**Comprises nine small reservoirs on Mission Valley Indian Irrigation Service Project.

PRECIPITATION DATA FOR MARCH 1, 1951
MONTANA

Station	Elevation	1950 Precipitation Oct.	Nov.	Dec.	1951 Jan.	Feb.	Dept. from Normal	Seasonal Accumulation Precipitation 1950-51	Normal	Departure
WEST OF DIVIDE										
Butte (Airport)	5533	0.53	1.20	0.59	0.92	0.82	+0.40	4.06	2.49	+8.57
Phillipsburg	5280	0.51	1.25	0.64	1.43	1.45	+0.81	5.28	4.05	+1.23
Hamilton	3529	1.78	1.58	0.71	1.21	1.52	+0.81	6.80	3.97	+2.83
West Glacier	3154	5.87	2.35	5.17	4.77	4.88	+2.75	23.04	13.45	+9.59
Summit (Marias)	5213	7.53	6.13	5.88	5.37	6.52	+3.07	31.43	14.26	+17.17
Ovando 1 SW	4101	1.02	2.38	1.63	1.53	1.72	+0.37	8.28	7.45	+0.83
Trout Creek	2485	6.36	3.95	4.67	5.42	6.51	+3.69	26.91	16.72	+10.19
Thompson Falls	2435	4.36	2.79	2.25	2.97	3.44	+1.06	15.81	9.64	+6.17
Average (8)		3.50	2.70	2.69	2.95	3.36	+1.83	15.20	9.00	+6.20
CENTRAL DIVISION										
Babb	4300	1.04	1.23	0.85	0.65	1.79	+0.97	5.56	4.87	+0.69
Havre	2488	0.24	0.41	0.32	0.39	0.42	-0.08	1.77	3.12	-1.35
Great Falls (Airport)	3664	0.03	1.19	0.58	0.41	1.34	+0.79	3.55	3.37	+0.18
Helena (Airport)	3893	0.43	1.50	0.61	0.38	0.24	-0.13	3.15	2.48	+0.67
Lewistown (Airport)	4132	0.74	0.83	1.05	0.17	0.20	-0.57	2.99	2.27	+0.72
Livingston	4485	0.94	1.05	0.81	0.38	0.40	-0.20	3.58	3.65	-0.07
Wisdom	6058	1.06	1.15	0.48	0.71	0.93	+0.40	4.33	3.75	+0.58
West Yellowstone	6669	2.88	1.79	1.95	2.28	1.91	+0.24	10.81	10.50	+0.30
Mystic Lake	6558	0.86	2.37	1.08	2.02	0.17	-0.81	6.50	6.68	-0.18
Average (9)		0.91	1.28	0.85	0.82	0.82	-0.03	4.69	4.52	+0.17
EASTERN DIVISION										
Malta	2255	0.39	0.18	0.35	0.49	0.52	+0.06	1.93	2.44	-0.51
Ft. Peck	2180	0.24	0.25	0.23	0.48	0.39	+0.12	1.59	2.15	-0.56
Medicine Lake	1962	0.50	0.10	0.21	0.36	0.49	+0.17	1.66	1.99	-0.33
Circle	2428	0.54	0.18	0.13	0.33	0.50	-0.11	1.68	3.45	-1.77
Billings #2	3139	0.83	0.88	0.68	0.70	0.38	-0.12	3.45	3.60	-0.15
Miles City	2392	0.40	0.52	0.31	0.08	0.27	-0.36	1.58	3.25	-1.67
Glendive	2076	0.45	E0.16	0.07	0.37	0.42	-0.01	1.47	2.75	-1.28
Broadus	3026	0.46	0.41	0.40	0.48	0.31	-0.17	2.06	3.04	-0.98
Average (8)		0.48	0.34	0.30	0.41	0.41	-0.40	1.93	2.83	-0.90

PRECIPITATION DATA FOR MARCH 1, 1951
NORTHERN WYOMING

Station	Elevation	1950 Precipitation			1951		Dept. from Normal	Seasonal Accumulation Precipitation		
		Oct.	Nov.	Dec.	Jan.	Feb.		1950-51	Normal	Departure
BIG HORN RIVER BASIN										
Cody	4984	.08	1.29	.28	.77	0.09	-0.22	2.42	2.12	+0.30
Lovell	3825	.02	.32	.03	.09	T	-0.27	0.46	1.48	-1.02
Worland	4061	T	.10	.40	T	0.10	-0.16	0.60	1.93	-1.33
Sunshine 4 SW	6930	.17	1.04	.29	.37	0.67	+0.06	2.54	3.96	-1.42
Thermopolis	4336	.19	.80	.21	.07	0.18	-0.22	1.34	2.94	-1.60
Riverton	4954	.22	.57	.00	.05	0.31	+0.06	0.89	2.26	-1.37
Dubois	6917	.37	.71	T	.16	0.45	+0.01	1.37	2.44	-1.07
Average (7)		.15	.68	.17	.22	0.25	-0.11	1.37	2.49	-1.13
TONGUE RIVER BASIN										
Sheridan	4021	.51	1.05	.58	.55	0.24	-0.46	2.93	3.89	-0.96
POWDER RIVER BASIN										
Arvada	3680	.22	.31	.06	.16	0.18	-0.18	0.93	2.79	-1.86
Metz Ranch	5280	.37	.67	.19	.46	0.38	-0.06	2.07	2.64	-0.57
Gillette	4542	.63	.72	.05	.50	0.25	-0.19	2.15	3.43	-1.28
Nine Mile Creek	5000	.70	.40	.05	.20	0.50	+0.20	1.85	2.33	-0.48
Mid West	4850	.83	.47	.28	.23	0.27	-0.23	2.08	3.33	-1.25
Average (5)		.55	.51	.31	.34	0.32	-0.09	1.82	2.91	-1.09

MONTANA SNOW SURVEYS MARCH 1, 1951

MISSOURI BASIN

DRAINAGE BASIN AND SNOW COURSE	No.	Elev.	Date of Survey 1951	Snow Depth (In.) 1951	Water Content (Inches) Mar. 1 1951	Past Records 1950	Past Records 1949	Average Data March 1 Avg.	Average Data March 1 %Avg.	Years of Record	Ground Surface Condition
JEFFERSON RIVER (Rock-Beaverhead)											
Lakeview Ridge	11E3	7400									
Lakeview Canyon	11E4	6930									
Limekiln	11E2	6950	Feb. 8	2.5	0.8	1.0	2.6	1.5	53	3	G.F.
White Pine Ridge	11E1	8850	Feb. 8	15.0	3.0	5.0	6.0	4.7	64	4	G.N.F.
*Kilgore	11E12	6200	Mar. 1	36.0	7.4	7.9	9.7	8.9	84	15	--
*Camp Creek	12E3	6800	Feb. 28	29.0	6.0	11.9	10.5	8.1	74	16	--
*Blue Ridge Mine	11E11	6700									
(Horse Prairie)											
Bloody Dick	13D10	7600	Feb. 13	46.8	13.2	8.5	13.9	9.8	135	4	G.N.F.
Gold Stone	13D9	8100	Feb. 13	60.6	17.8	10.4	15.6	12.5	143	4	G.N.F.
Lemhi Pass	13E1	7400	Feb. 10	35.2	9.4	5.4	7.9	7.5	125	4	G.N.F.
Terrell Creek	13D12	6650	Feb. 9	24.4	6.6	3.0	4.8	3.4	194	4	G.N.F.
Trail Creek	13E2	7090	Feb. 10	32.8	8.4	4.3	7.0	6.3	133	4	G.N.F.
Selway Junction	13D11	6500	Feb. 9	38.8	9.8	5.4	8.8	6.1	160	4	G.N.F.
(Big Hole)											
Big Hole Pass	13D3	7440	Feb. 14	59.8	19.0	12.2	20.9	14.9	128	4	G.N.F.
Big Hole Pass(Below)	13D4	6900	Feb. 14	49.0	18.0	11.5	17.9	12.4	145	4	G.N.F.
East Boundary	13D5	6700	Feb. 14	29.8	8.1	7.6	9.8	7.5	108	4	G.N.F.
Jahnke Creek	13D8	7340	Feb. 13	41.9	12.4	7.7	13.6	9.2	135	4	G.N.F.
Miner Forks	13D6	7300	Feb. 11	45.3	13.4	8.2	14.0	9.5	141	4	G.N.F.
Miner Lake	13D7	6720	Feb. 11	31.7	8.1	5.8	9.4	7.3	111	7	G.N.F.
*Moose Creek	13D16	6200									
(Wise River)											
Anderson Meadow	13D14	7000	Feb. 16	31.6	8.4	6.8	8.4	7.2	117	4	G.N.F.
Elk Horn	13D15	8450	Mar. 2	39.1	10.4	7.1	12.2	7.5	139	17	--
Wise River	13D13	6300	Feb. 16	19.0	5.4	4.2	5.7	4.8	112	4	G.F.
(Ruby River)											
Cottonwood	11E2	5900	Feb. 24	26.6	6.0	8.6	8.2	7.6	79	4	G.F.
Cottonwood (Upper)	11E1	8400	Feb. 24	26.9	5.9	8.9	9.2	8.0	74	4	G.F.
Flashlight	12D3	6950	Mar. 2	17.6	4.2	3.2	5.0	3.6	117	7	G.F.
Tobacco Root	12D2	6900	Feb. 23	30.3	8.1	5.0	11.0	8.1	100	4	G.F.
Vigilante	11D1	6125	Feb. 24	No Snow			2.1	1.0	-	4	G.F.

*Adjacent Basin

MONTANA SNOW SURVEYS MARCH 1, 1951

MISSOURI BASIN

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MADISON RIVER											
Hebgen	11E5	6550	Feb. 28	36.7	9.1	9.6	14.0	10.7	85	18	--
West Yellowstone	11E7	6700	Feb. 28	43.0	11.8	11.7	14.4	9.9	108	18	--
21-Mile	11E6	7150	Feb. 28	49.0	14.2	17.1	20.5	13.6	104	18	G.F.
*Big Springs	11E9	6500	Feb. 26	68.0	18.8	20.4	26.4	17.6	107	16	--
*Island Park	11E10	3600	Feb. 27	57.0	12.9	17.3	21.8	14.0	92	16	--
*Valley View	11E8	6500	Feb. 27	45.0	10.3	15.3	17.3	12.5	83	7	--
Norris Basin	10E2	7500	Feb. 27	35.8	9.3	8.7	-	8.1	115	12	--
GALLATIN RIVER											
Devil's Slide	10D4	8100	Mar. 2	49.2	14.8	12.9	18.1	13.0	99	17	G.F.
Hood Meadow	10D3	6600	Mar. 4	24.9	6.6	4.3	8.4	6.4	103	17	G.F.
Mystic Lake	10D2	6600	Mar. 4	21.3	5.6	3.8	9.8	6.2	91	17	G.F.
New World	10D1	6700	Mar. 4	27.0	7.2	5.3	11.2	8.7	88	10	G.F.
21-Mile	11E6	7150	Feb. 28	49.0	14.2	17.1	20.5	13.6	104	18	G.F.
MISSOURI RIVER MAIN STEM											
Chessman Reservoir	12C5	6200	Mar. 1	12.7	3.1	3.4	7.1	4.4	70	16	--
Crystal Lake	9C1	6100	Mar. 2	30.8	7.5	5.3	15.1	10.3	73	11	--
Grasshopper	10C2	7000	Feb. 28	13.4	3.0	3.8	7.3	4.2	71	14	--
Kings Hill	10C1	7950	Feb. 28	39.7	9.9	12.0	15.1	10.3	96	18	--
Pipestone Pass	12D1	7200	Feb. 28	27.7	5.3	1.8	6.8	4.0	132	14	--
Stemple Pass	12C1	6900	Feb. 28	35.9	9.1	8.2	12.1	8.0	111	18	--
Tenmile, Lower	12C2	6250	Mar. 2	26.0	6.6	5.4	8.1	5.6	118	17	--
Tenmile, Middle	12C3	6800	Mar. 2	39.6	9.7	8.4	11.2	8.1	120	18	--
Tenmile, Upper	12C4	8000	Mar. 3	45.0	12.9	10.6	13.2	10.4	124	17	--
(Teton River)											
Fright Creek	12A1	6000	Feb. 28	58.2	18.6	18.2	15.3	13.3	122	4	G.N.F.
Waldron Creek	12B2	5600	Feb. 27	28.6	8.7	9.6	6.8	7.0	124	4	G.N.F.
West Fork	12B1	6000	Feb. 27	57.4	19.6	16.8	16.6	14.4	136	4	G.N.F.

* Adjacent Basin

MONTANA SNOW SURVEYS MARCH 1, 1951

MISSOURI BASIN

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(Sun River)											
Benchmark	12B8	5500	Feb. 26	34.6	10.0	10.5	9.0	8.8	114	4	G.N.F.
Cabin Creek	12B6	5400	Feb. 27	28.7	7.8	7.2	6.2	7.1	110	3	---
5-Bull	12B9	5600	Feb. 26	28.6	7.7	7.8	6.9	7.5	102	4	G.N.F.
Gates Park	12B5	5300	Feb. 28	38.1	11.5	10.8	9.8	10.7	107	3	---
Goat Mountain	12B7	7000	Feb. 28	39.4	11.9	13.2	11.2	8.3	143	18	---
My Lake	13B9	7300	Mar. 6	104.5	39.1	46.5	--	--	--	2	GF
Wrong Ridge	12B3	6800	Mar. 2	65.9	21.0	26.0	20.9	22.6	93	3	---
Wrong Creek	12B4	5700	Mar. 1	48.2	16.4	17.6	14.4	16.1	102	3	---
(Marias River)											
Marias Pass	12B5	5250	Feb. 28	58.1	20.2	24.3	20.5	14.4	140	18	---
Snow Lab. #16	13A9	5200									
(Milk River)											
Rocky Boy	9A1	5200	Mar. 1	11.8	2.9	3.5	4.4	4.8	60	11	---
UPPER YELLOWSTONE											
Canyon	10E3	7750	Feb. 28	52.3	14.0	14.1	13.4	13.0	108	6	---
Cooke City	10D7	7400	Mar. 1	29.6	7.7	5.8	9.3	6.5	118	15	---
Crevice Mt.	10D5	8400	Mar. 1	30.0	7.1	7.5	11.4	8.2	87	13	G.F.
Independence	10D6	8000									
Lake Camp	10E4	7850	Mar. 1	35.0	8.8	10.1	12.5	8.1	108	15	---
Lupine	10E1	7300	Feb. 27	31.2	7.1	9.2	13.3	8.2	87	13	---
*Lewis Lake Divide	10E9	7000	Feb. 28	116.0	42.2	45.4	47.3	37.9	111	33	---
*Tom Thumb Summit	10E7	7900	Feb. 28	63.0	21.0	24.5	23.3	22.1	95	4	---
(Shields River)											
Porcupine	10C3	9200	Mar. 3	16.2	3.5	3.4	8.0	4.4	79	13	G.F.
(Musselshell River)											
Grasshopper	10C2	7000	Feb. 28	13.4	3.0	3.8	7.3	4.2	71	14	---

MONTANA SNOW SURVEYS, MARCH 1, 1951

MISSOURI BASIN

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LOWER YELLOWSTONE (Wind River)											
Brooks Lake #3	10F2	9200	Feb. 28	79.3	28.2	26.6	22.5	18.1	157	15	G.F.
Burroughs Creek	9F6	8800	Feb. 27	69.5	23.0	16.0	13.5	17.5	130	3	G.F.
Dinwoodie	9F10	10000	Mar. 2	51.2	17.5	14.6	10.8	14.3	122	3	G.F.
Dry Creek	9F9	9500	Mar. 2	30.4	8.6	9.0	5.9	7.8	110	3	G.F.
Du Noir	9F2	8750	Feb. 27	37.3	10.3	11.2	9.3	7.8	131	11	G.F.
Geyser Creek	9F3	8500	Mar. 1	36.6	11.3	10.1	8.4	9.9	114	3	G.F.
Hobbs Park	9G2	10000	Feb. 23	53.0	16.4	23.7	19.5	19.9	82	3	G.F.
Little Warm	9F4	9500	Mar. 1	62.1	21.3	18.7	13.7	17.9	120	3	G.F.
Mosquite Park	9G3	9500	Feb. 23	27.7	6.8	11.3	10.3	8.2	83	8	G.F.
Sheridan Creek R.S.	9F1	7500	Feb. 28	35.7	10.6	7.4	8.6	5.5	193	15	G.F.
St. Lawrence R.S.	9F11	9000	Feb. 24	19.9	4.4	8.2	9.0	6.7	66	8	G.F.
T-Cross Ranch	9F5	8000	Feb. 27	35.7	10.0	6.7	7.1	5.8	172	11	G.F.
Trout Creek	9G1	8400	Feb. 23	14.4	2.9	4.5	9.1	5.5	53	3	G.F.
*Togwotee Pass	9F1	9600	Feb. 27	92.0	32.4	-	-	-	-	2	-
*Kendall	9F12	7900	Mar. 1	46.8	14.8	-	12.5	10.5	138	9	-
*Loomis Park	10F5	8500	Mar. 1	63.1	22.0	-	17.6	14.6	151	9	-
*Black Rock	10F3	8600	Feb. 27	72.0	25.8	-	-	-	-	2	-
POPO AGIE RIVER											
Blue Ridge	8G2	9500	Feb. 22	38.6	10.1	14.8	15.7	8.2	123	13	G.F.
Grannier Meadows	8G4	9000	Feb. 22	47.2	13.5	17.5	16.8	11.0	123	15	G.F.
Larsen Creek	9G4	9000	Feb. 25	49.7	15.7	17.3	13.1	15.4	102	3	G.F.
Sawmill Glade	8G1	8500	Feb. 22	13.7	2.8	4.6	8.0	4.8	58	12	G.F.
South Pass	8G3	9000	Feb. 22	44.9	13.5	17.3	15.8	10.6	127	12	G.F.
Mulligan Park	9G5	8900	Mar. 1	48.5	15.7	11.7	10.6	10.0	157	10	-
BIG HORN RIVER (Wyoming)											
Beavers Mill	9F8	8000	Mar. 1	32.1	8.1	7.7	6.9	7.6	107	3	GF
Owl Creek	8F1	8700	Mar. 6	25.7	5.5	5.8	6.0	5.8	95	3	GF
Timber Creek	9E2	9000	Feb. 26	16.9	5.8	4.1	7.5	5.8	100	3	-

*Adjacent Basin

MONTANA SNOW SURVEYS, MARCH 1, 1951

MISSOURI BASIN

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SHOSHONE RIVER											
East Entrance	10E6	7000	Feb. 28	41.4	5.8	9.6	14.4	9.9	59	3	--
Sylvan Pass	10E5	7100	Mar. 2	48.8	15.0	14.5	15.7	11.5	130	9	--
TONGUE RIVER											
Burgess R.S.	7E4	7900	Mar. 4	35.8	11.2	-	-	-	-	1	G.F.
Big Goose	7E2	7700	Mar. 4	11.8	2.2	-	-	-	-	1	G.F.
Dome Lake	7E5	8800	Mar. 4	21.8	4.4	-	-	-	-	1	G.F.
POWDER RIVER											
Muddy Pass	7E7	9700	Feb. 28	29.2	6.2	-	-	-	-	1	G.F.
Soldier Park	7E6	8700	Mar. 4	23.8	4.1	-	-	-	-	1	G.F.
CHEYENNE RIVER (South Dakota)											
Upper Spearfish	1 S.D.	6500	Mar. 1	9.6	2.0	2.8	9.4	5.5	36	8	--
Upper Castle	2 S.D.	6800	Mar. 1	14.8	3.6	4.2	9.7	5.4	67	8	--
Deerfield	3 S.D.	6000	Mar. 1	7.6	1.4	3.9	4.7	3.5	40	8	--
COLUMBIA RIVER DRAINAGE IN MONTANA											
KOOTENAI											
Brush Creek	14A4	5000	Feb. 27	40.0	11.0	14.0	17.0	13.8	80	5	--
Fernie	Canada	3500	Feb. 27	27.8	10.3	10.2	9.3	7.4	139	13	--
New Fernie	Canada	4100	Feb. 28	50.9	14.3	-	-	-	-	1	--
Gray Creek	Canada	5100	Feb. 26	60.1	18.6	16.1	17.8	17.5	106	3	--
Kimberley	Canada	3800	Mar. 1	35.1	10.4	9.2	7.2	5.4	192	11	--
Marble Canyon	Canada	5000	Feb. 27	69.6	22.6	14.9	12.0	14.9	152	5	--
Nelson Creek	Canada	3050	Feb. 27	41.9	16.9	13.3	20.2	12.8	132	12	--
Red Mountain, Mont.	15A1	6000	Mar. 1	63.0	19.9	20.2	18.7	15.4	129	15	--
Sinclair Pass	Canada	4500	Feb. 27	36.7	9.3	6.0	3.7	5.4	172	6	--
Sullivan Mine	Canada	5100	Feb. 28	54.1	15.9	15.6	12.7	12.9	123	6	--
Upper Elk River	Canada	4400	Feb. 28	39.4	10.3	9.6	8.0	9.1	113	4	--

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FLATHEAD RIVER											
Big Creek	13B3	6750	Feb. 28	108.4	37.6	38.7	35.0	34.6	106	11	--
Brush Creek	14A4	5000	Feb. 27	40.0	11.0	14.0	17.0	13.8	80	5	--
Cattle Queen	13A1	4700	Mar. 2	90.5	31.2	35.1	31.1	28.1	111	7	--
Desert Mountain	13A2	5600	Feb. 28	50.9	15.4	16.8	-	12.1	127	8	--
Hell Roaring Divide	14A3	5700	Feb. 28	81.4	26.7	-	-	-	-	2	--
Kishenehn	14A2	4300	Feb. 25	29.9	8.3	8.8	7.9	8.2	101	6	--
Limestone Pass	13B8	7600	Mar. 1	112.4	40.8	48.8	40.5	41.4	99	4	--
Logan Creek	14A5	4300	Feb. 26	31.9	7.8	9.1	10.4	9.1	79	5	--
Marias Pass	13A5	5250	Feb. 28	58.1	20.2	24.3	20.5	14.4	140	18	--
North Fork Jocko	13B7	6330	Mar. 4	110.4	40.0	45.0	37.4	35.4	113	11	--
Rainy Lake	13B6	4300	Feb. 26	15.0	4.3	13.6	14.3	11.8	127	5	--
Snow Lab. #16	13A9	5200									
Spotted Bear Mt.	13B2	7000	Mar. 1	40.1	12.5	17.5	19.3	19.1	66	4	--
Strawberry Lake	13B10	6500	Feb. 28	103.6	35.9	40.5	39.4	38.6	93	3	--
Trinkus Lake	13B1	6500	Feb. 28	97.2	31.6	43.3	37.4	37.7	84	4	--
Trout Lake #2	13B11	3600	Mar. 1	46.3	14.7	-	-	-	-	1	--
Upper Holland Lake	13B5	7000	Mar. 1	83.4	30.5	36.8	32.2	32.3	95	4	--
Basin Creek	13B14	5000	Mar. 2	28.9	9.5	-	-	-	-	1	--
Holbrook	13B13	4530	Mar. 2	29.3	9.0	-	-	-	-	1	--
Quintonkon	13A13	3800	Feb. 28	41.0	12.9	-	-	-	-	1	--
Twin Creeks	13B11	3580	Feb. 27	30.8	10.7	-	-	-	-	1	--
UPPER CLARK FORK											
Chessman Res.	12C5	6200	Mar. 1	12.7	3.1	3.4	7.1	4.4	70	16	--
El Dorado Mine	13C9	7800	Mar. 2	58.2	18.0	16.4	-	-	-	2	--
Gold Creek Lake	13C8	7200	Mar. 2	51.1	15.8	14.3	-	-	-	2	--
Intergaard	13C4	6450	Feb. 28	32.1	8.1	5.9	10.6	5.7	142	16	G.F.
North Fork Jocko	13B7	6330	Mar. 4	110.4	40.0	45.0	37.4	35.4	113	11	--
Pipestone Pass	12D1	7200	Feb. 28	27.7	5.3	1.8	6.8	4.0	132	14	--

MONTANA SNOW SURVEYS, MARCH 1951

MISSOURI BASIN

DRAINAGE BASIN AND SNOW COURSE	No.	Elev.	Date of Survey 1951	Snow Depth (In.) 1951	Water Content (Inches) Mar. 1 1951	Past Records 1950	Past Records 1949	Average Data March 1 Avg.	Average Data March 1 %Avg.	Years of Record	Ground Surface Condition
UPPER CLARK FORK (Continued)											
Rainy Lake	13B6	4200	Feb. 26	15.0	4.3	13.6	14.3	11.8	127	5	--
Stemple Pass	13C1	6900	Feb. 28	35.9	9.1	8.2	12.1	8.0	111	18	--
Stuart Mill	13C6	6500	Feb. 28	24.0	6.2	5.5	8.9	4.8	129	16	G.F.
Picnic Grounds	12C6	6500	Feb. 28	21.9	5.0	2.5	6.3	3.8	132	7	G.F.
Southern Cross	13C5	6500	Feb. 28	20.8	5.5	2.6	6.4	4.2	131	16	G.F.
Tenmile, Lower	12C2	6250	Mar. 2	26.0	6.6	5.4	8.1	5.6	118	17	--
Tenmile, Middle	12C3	6800	Mar. 2	39.6	9.7	8.4	11.2	8.1	120	18	--
Tenmile, Upper	12C4	8000	Mar. 3	45.0	12.9	10.6	13.2	10.4	124	17	--
*Lookout	15B2	5250	Feb. 28	90.0	32.2	36.4	46.0	29.4	110	27	--
BITTERROOT											
Gibbons Pass	13D2	7100	Feb. 28	73.7	23.8	25.2	26.2	18.4	130	18	--
Mud Creek Pasture	14C1	4500	Mar. 1	19.7	6.5	11.2	15.4	8.4	77	9	--
Nezperce Camp	14D2	5580	Feb. 27	46.0	12.8	11.8	17.6	11.1	115	14	--
Nezperce Pass	14D1	6575	Feb. 27	51.8	16.8	14.6	20.4	15.0	112	15	--

CORRECTION TO FEBRUARY BULLETIN

WYOMING TONGUE RIVER											
Big Goose R.S.	7E2	7700	Feb. 1	11.5	2.6	---	---	---	---	1	--

FEBRUARY DATA RECEIVED AFTER BULIETIN WAS DISTRIBUTED

POWDER RIVER WYOMING											
North Powder River	new course		Feb. 14	24.6	5.0	---	---	---	---	1	--
UPPER CLARK FORK MONTANA											
Intergaard	13C4	6450	Jan. 31	24.2	6.2						
Picnic Grounds	12C6	6500	Jan. 31	18.1	4.7						
Southern Cross	13C5	6500	Jan. 31	16.5	4.6						
Stuart Mill	13C6	6500	Jan. 31	18.0	5.2						

Federal - State - Private

COOPERATIVE SNOW SURVEYS

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Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"